



Huntley C of E Primary School

Science Curriculum

School Vision

Nurtured individuals, learning together with God's love, to live life to the full.

Core Values

Respect, Perseverance and Courage.

Living Values

Creativity, Wisdom, Compassion, Truthfulness, Generosity, Responsibility, Friendship, service, Justice, Peace, Thankfulness, Forgiveness.

Science Curriculum Statement of Intent

At Huntley C of E Primary School, we endeavour to inspire and excite the scientists of tomorrow to enable them to develop an interest and enjoyment of science, aspects of biology, chemistry and physics and the world around them. Encouraging the children to participate actively and vocally, we ensure the children feel a sense of achievement and success; developing their confidence and pride in themselves. We want to nurture the natural curiosity of our children, to make sense of the world around them and their place within it.

We want children to be able to link their learning in the classroom to the science of everyday life, and understand how the work of scientists from different cultures have influenced the way we understand our world. Throughout their science education, the children will learn and develop their ability to participate in practical investigations, exposing them to the five main enquiry strands: comparison and fair testing, pattern seeking, research, identifying, grouping and classifying, and observing over time.

As well as active participation, the children will be taught scientific vocabulary to enable them to verbalise their knowledge. To enhance their learning further, we will utilise our school grounds and our local area to connect science in the classroom to science in our lives. Trips, visits and visitors are at the heart of our teaching to allow children to understand the world around them through first hand experiences.

The children will be taught the importance of caring for their bodies through exercise and healthy eating, enabling them to make positive choices as they grow.

Science Curriculum Implementation

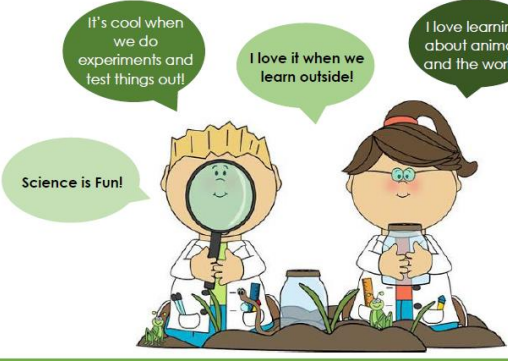
The National Curriculum (2014) is used to inform our planning. At Huntley, science is taught predominately in mixed age groups (EYFS, KS1, LKS2 and UKS2). This ensures good coverage of skills and means that the children are able to access knowledge and understanding at an appropriate depth and that there is clear progression of scientific skills across the school. As a result of mixed age learning, science content is taught on a two-year rolling programme, ensuring good curriculum content coverage.

Throughout the school children work to develop their ability of work scientifically. Alongside theoretical and practical lessons in the classroom, we utilise our locality, exploring and discovering science in the 'real world'; a world well-known to our children.

So much of science lends itself to outdoor learning so we have ensured that this is reflected and embedded within our curriculum. To support this, we also work together with 'Leaf Creative' where possible and offer school visits, where appropriate, to give the children memorable and hands on experience. In addition, scientific links and understanding is used to support topic lessons and cross-curricular links are made where suitable.

Science at Huntley C of E Primary School

All children will use and develop their natural **curiosity** to **explore** and **investigate** the world around them. They will be independent and **enthusiastic learners** who are able to discuss their scientific understanding using correct **vocabulary** which will help them so become responsible citizens for the future.

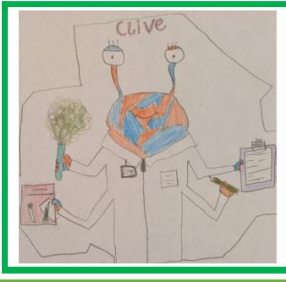


Science is Fun!

It's cool when we do experiments and test things out!


I love it when we learn outside!

I love learning about animals and the world!



Clive

Curious learners
Linking learning to the world
Investigators
Vocabulary
Enthusiastic explorers!



Children participate in a variety of activity types throughout the topics and the year. Each science topic begins with an elicitation activity providing teachers to adjust planning accordingly. In KS2, teachers provide the children with knowledge organisers through the topic to allow the children to map and track their own understanding, while supporting them with building a glossary of important topic vocabulary to use in their verbal and written explanations. During each term, the children are introduced to scientists from different cultures and time periods to learn about, value and respect the contribution made by these individuals.

The school holds a central bank (Chill Out Room) of teachers' resource books and frequently used resources and equipment. Children are encouraged to choose from a range of equipment and are trained in the safe and considerate use of materials. Teachers are encouraged to replenish supplies when necessary to ensure the resources are of an excellent quality for use in lessons.

Science Curriculum Impact

Our curriculum has been designed to support and guide our pupils through their science education in a hands-on, engaging and memorable way. By the end of Key Stage 2, our pupils will:

- have developed an enjoyment and interest in science.
- have an appreciation of science's contribution to all aspects of everyday life.
- be curious and inspired to know more about the world around them.
- have actively taken part and developed their practical skills and their ability to work scientifically.
- be able to use a range of correct scientific vocabulary to share their understanding of science.
- have a greater understanding of scientific concepts and knowledge gained through the use of the five main enquiry-based skills.
- have experienced science in different learning environments within our locality and beyond.
- understand what a 'healthy lifestyle' means and have been supported to implement this into their own lifestyle.

Our approach to science education provides children with a toolkit of skills and a foundation of knowledge and understanding about the world around them. This gives our scientists solid building blocks in preparation to develop their learning further in their secondary education. By utilising our local environment, the children gain an appreciation of their locality as their understanding of it develops and deepens through first-hand experiences explicitly linked to classroom learning. Through looking at the work of prominent scientists and learning about the impact that science has had on our lives, the children are encouraged to consider themselves as scientists within the classroom to encourage them to consider science as a possible future career.